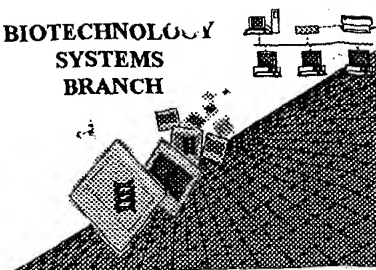


RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



US 70
0823

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/928,047

Source: OIPF

Date Processed by STIC: 8/23/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

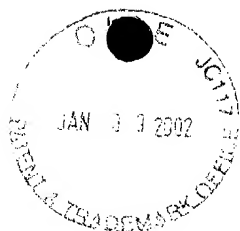
Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>



OIPE

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/928,047

DATE: 08/23/2001
 TIME: 16:01:06

Input Set : A:\ES.txt
 Output Set: N:\CRF3\08162001\I928047.raw

Does Not Comply
 Corrected Diskette Needed

4 <110> APPLICANT: Cantor, Thomas L.
 6 <120> TITLE OF INVENTION: Cyclase Inhibiting Parathyroid Hormone Antagonists or
 Modulators and
 7 Osteoporosis
 9 <140> CURRENT APPLICATION NUMBER: US/09/928,047
 9 <141> CURRENT FILING DATE: 2001-08-10
 0 <130> FILE REFERENCE:
 9 <160> NUMBER OF SEQ ID NOS: 5
 11 <170> SOFTWARE: Microsoft Word 2000 - ASCII format

ERRORED SEQUENCES

14 <210> SEQ ID NO: 1
 16 <211> LENGTH: 83 [integer length] *delete*
 18 <212> TYPE: PRT
 20 <213> ORGANISM: human parathyroid hormone peptide fragment
 22 <400> SEQUENCE: 1
 24 Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 25 1 5 10 15
 27 Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val
 28 20 25 30
 30 His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala
 31 35 40 45
 33 Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu
 34 50 55 60
 36 Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn
 37 65 70 75
 E--> 39 Val Leu Thyr Lys Ala Lys Ser Gln *invalid*
 40 80
 44 <210> SEQ ID NO: 2
 46 <211> LENGTH: 51 [integer length]
 48 <212> TYPE: PRT
 50 <213> ORGANISM: human parathyroid hormone peptide fragment
 52 <400> SEQUENCE: 2
 54 Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 55 1 5 10 15
 57 Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His
 58 20 25 30
 60 Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val Leu
 61 35 40 45
 E--> 63 Thyr Lys Ala Lys Ser Gln
 64 50
 68 <210> SEQ ID NO: 3
 70 <211> LENGTH: 82 [integer length]
 72 <212> TYPE: PRT
 74 <213> ORGANISM: human parathyroid hormone peptide fragment
 76 <400> SEQUENCE: 3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/928,047

DATE: 08/23/2001

TIME: 16:01:06

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I928047.raw

78 Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn Ser
 79 1 5 10 15
 81 Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 82 20 25 30
 84 Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly
 85 35 40 45
 87 Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser
 88 50 55 60
 90 His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val
 91 65 70 75
 E--> 93 Leu Thyr Lys Ala Lys Ser Gln
 94 80
 98 <210> SEQ ID NO: 4
 100 <211> LENGTH: 57 [integer length]
 102 <212> TYPE: PRT
 104 <213> ORGANISM: human parathyroid hormone peptide fragment
 106 <400> SEQUENCE: 4
 109 Leu Gln Asp Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala
 110 1 5 10 15
 112 Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn
 113 20 25 30
 115 Val Leu Val Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys
 116 35 40 45
 E--> 118 Ala Asp Val Asn Val Leu Thyr Lys Ala Lys Ser Gln
 119 50 55
 123 <210> SEQ ID NO: 5
 125 <211> LENGTH: 57 [integer length]
 127 <212> TYPE: PRT
 129 <213> ORGANISM: human parathyroid hormone peptide fragment
 131 <400> SEQUENCE: 5
 133 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu
 134 1 5 10 15
 136 Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
 137 20 25 30
 139 Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp
 140 35 40 45
 142 Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val
 143 50 55 60
 145 Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val
 146 65 70 75
 E--> 148 Asn Val Leu Thyr Lys Ala Lys Ser Gln
 E--> 149 80

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/928,047

DATE: 08/23/2001

TIME: 16:01:07

Input Set : A:\ES.txt

Output Set: N:\CRF3\08162001\I928047.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
 L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:0 M:201 W: Mandatory field data missing, FILE REFERENCE
 L:39 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:39 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:63 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:63 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:93 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:93 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:118 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:118 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:148 M:333 E: Wrong sequence grouping, Amino acids not in groups!
 L:148 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
 L:149 M:252 E: No. of Seq. differs, <211>LENGTH:Input:57 Found:84 SEQ:5



UNITED STATES PATENT AND TRADEMARK OFFICE

JAN 09 2002

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/928,047	08/10/2001	Thomas L. Cantor	

CONFIRMATION NO. 7857

FORMALITIES LETTER



OC000000006946155

Brian D. Voyce
Suite C204
1100 Possum Trot Road
North Myrtle Beach, SC 29582

Date Mailed: 10/22/2001

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE
DISCLOSURES**

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
- For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial Number: 09/928,047

Filing Date: August 10, 2001

Applicant: Thomas L. Cantor

Title: Cyclase Inhibiting Parathyroid Hormone Antagonists
or Modulators and Osteoporosis

} *Statement for a*
} *Sequence Listing*
}

Assistant Commissioner for Patents
Washington, DC 20231

Statement for a Sequence Listing

In accordance with 37 CFR 1.821(f) and (g), the diskette submitted has computer readable information with the same content as is found on the submitted written sequence listing and as supported by the filed specification.

If the examiner has any further questions, Applicant requests that the Examiner call their attorney at 843-272-1471.

Respectfully Submitted:

Brian D. Voyce
Attorney for Applicant

Date: October 25, 2001



SEQUENCE LISTING

<110> Cantor, Thomas L.

<120> Cyclase Inhibiting Parathyroid Hormone Antagonists or Modulators and Osteoporosis

<140> Us/09/928,047

<141> 2001-08-10

<160> 5

<170> Microsoft Word 2000 - ASCII format

<210> 1

<211> 83

<212> PRT

<213> human parathyroid hormone peptide fragment

<400> 1

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Ser	Met	Glu	Arg	Val	Glu	Trp	Leu	Arg	Lys	Lys	Leu	Gln	Asp	Val
				20					25					30
His	Asn	Phe	Val	Ala	Leu	Gly	Ala	Pro	Leu	Ala	Pro	Arg	Asp	Ala
				35					40					45
Gly	Ser	Gln	Arg	Pro	Arg	Lys	Lys	Glu	Asp	Asn	Val	Leu	Val	Glu
				50					55					60
Ser	His	Glu	Lys	Ser	Leu	Gly	Glu	Ala	Asn	Lys	Ala	Asp	Val	Asn
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Val	Leu	Thr	Lys	Ala	Lys	Ser	Gln							
							80							

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<211> 51

<212> PRT

<213> human parathyroid hormone peptide fragment

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Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly Ser
 1 5 10 15
 Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser His
 20 25 30
 Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val Leu
 35 40 45
 Thr Lys Ala Lys Ser Gln
 50

<210> 3

<211> 82

<212> PRT

<213> human parathyroid hormone peptide fragment

<400> 3

Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn Ser
 1 5 10 15
 Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30
 Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp Ala Gly
 35 40 45
 Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val Glu Ser
 50 55 60
 His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val Asn Val
 65 70 75
 Leu Thr Lys Ala Lys Ser Gln
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<211> 57

<212> PRT

<213> human parathyroid hormone peptide fragment

<400> 4

Leu Gln Asp Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala
 1 5 10 15

Pro Arg Asp Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn
20 25 30

Val Leu Val Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys
35 40 45

Ala Asp Val Asn Val Leu Thr Lys Ala Lys Ser Gln
50 55

<210> 5

<211> 57

<212> PRT

<213> human parathyroid hormone peptide fragment

<400> 5

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu
1 5 10 15

Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp
20 25 30

Val His Asn Phe Val Ala Leu Gly Ala Pro Leu Ala Pro Arg Asp
35 40 45

Ala Gly Ser Gln Arg Pro Arg Lys Lys Glu Asp Asn Val Leu Val
50 55 60

Glu Ser His Glu Lys Ser Leu Gly Glu Ala Asn Lys Ala Asp Val
65 70 75

Asn Val Leu Thr Lys Ala Lys Ser Gln
80